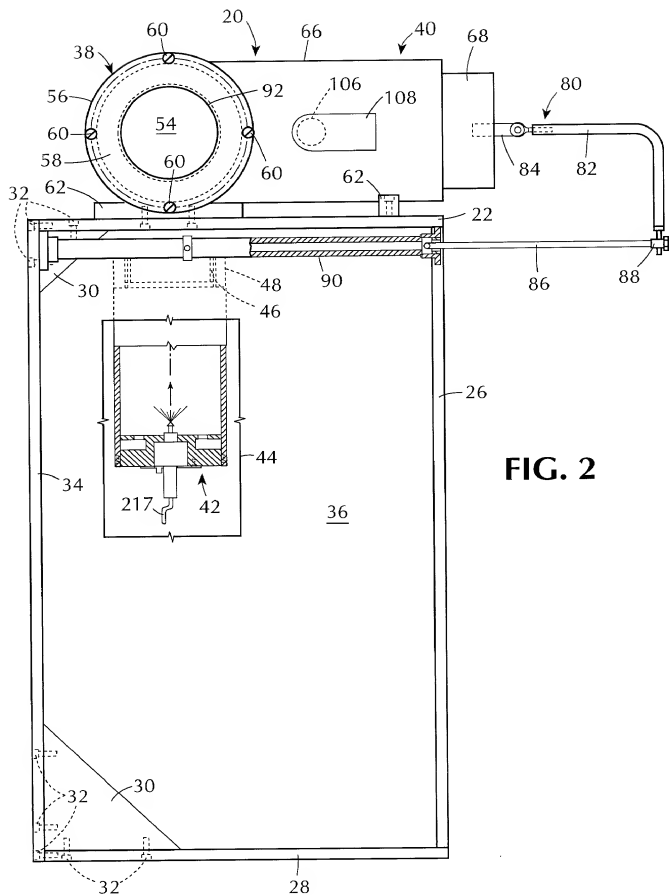
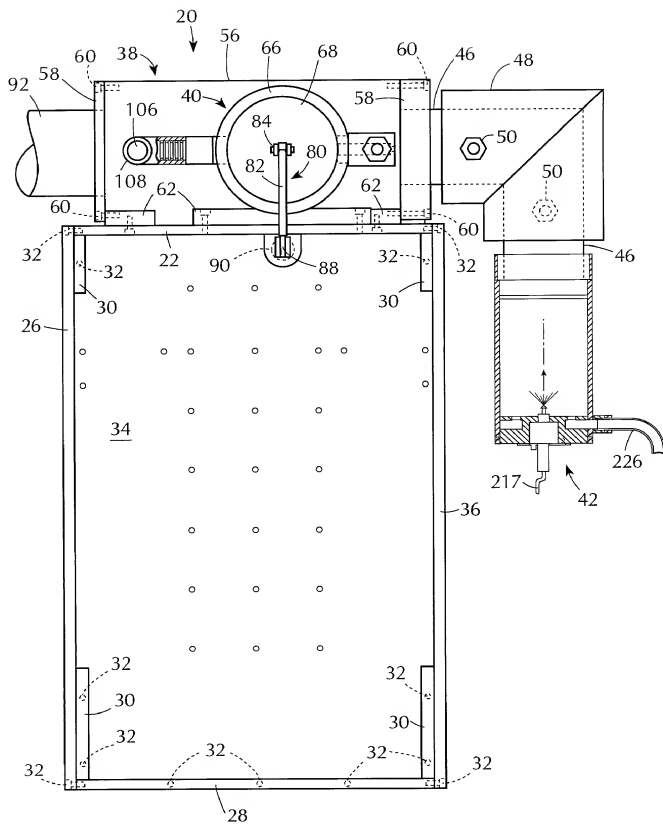


FIG. 1

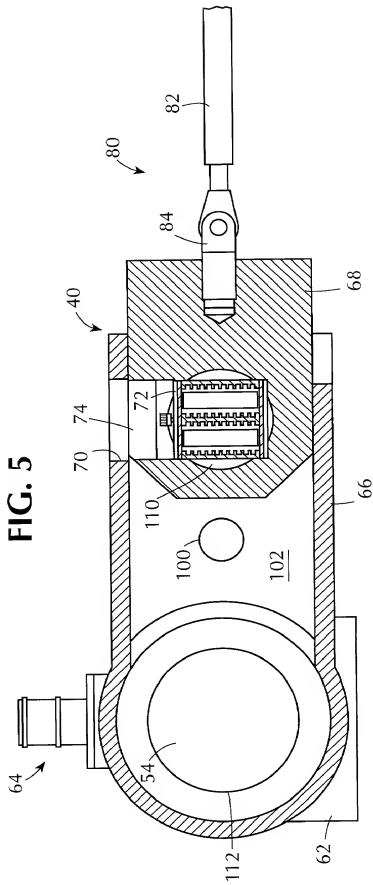


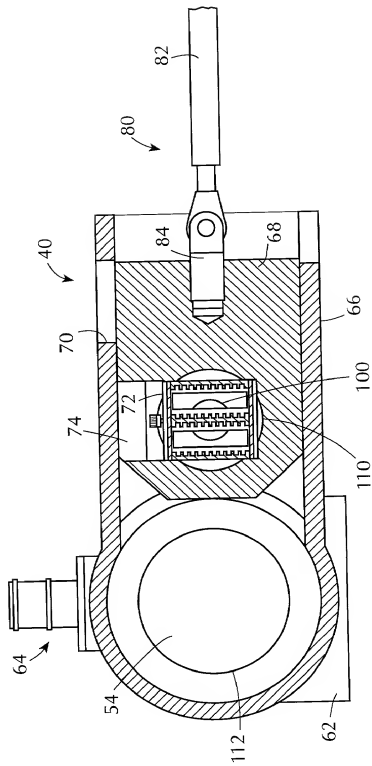
**FIG. 2**

FIG. 3



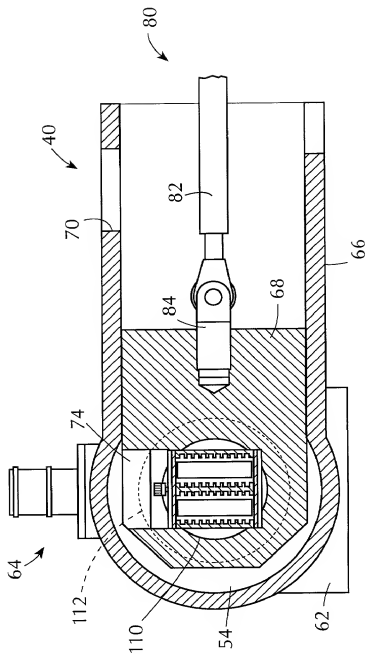






**FIG. 6**

FIG. 7



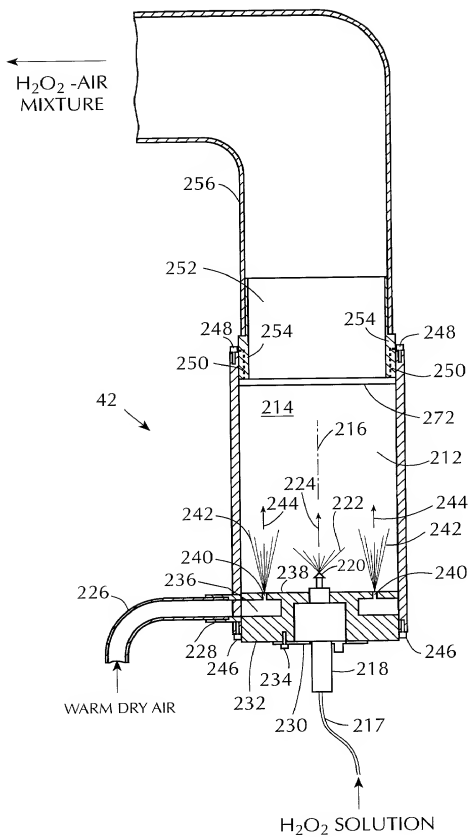


FIG. 9



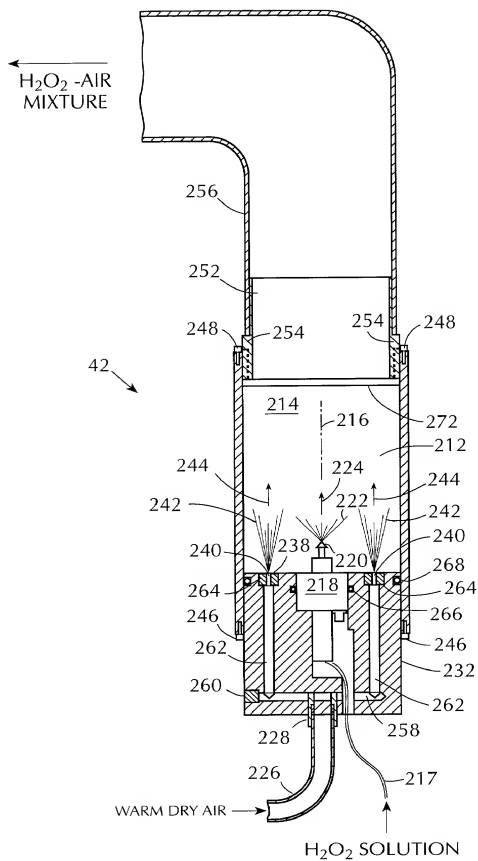


FIG. 10

FIG. 11

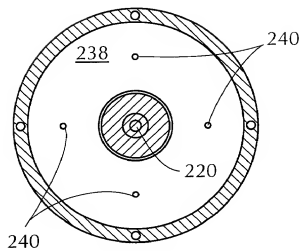
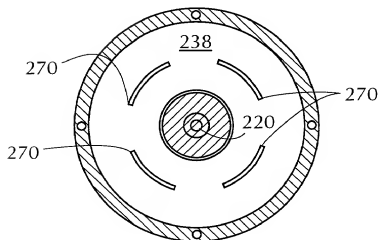
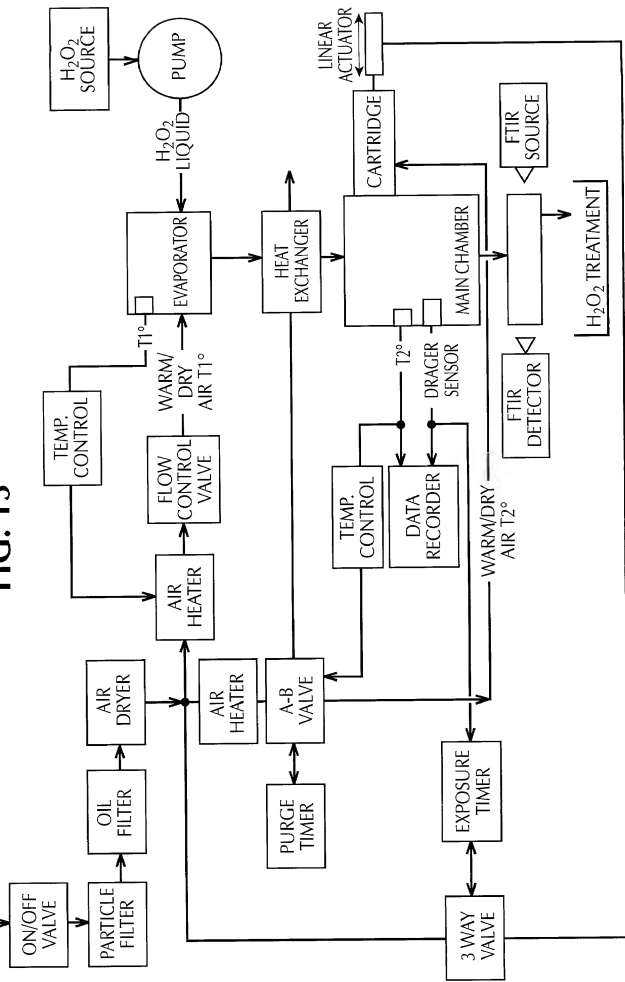


FIG. 12



COMPRESSED AIR

FIG. 13



**FIG. 14**

| Sample       | Count 1 | Count 2 | log (Sample 1) | log (Sample 2) | log Average | Range  | Log Reduction |
|--------------|---------|---------|----------------|----------------|-------------|--------|---------------|
| 1            | 750     | 710     | 2.8751         | 2.8513         | 2.8632      | 0.0238 | 3.1368        |
| 3            | 1070    | 890     | 3.0294         | 2.9494         | 2.9894      | 0.0800 | 3.0106        |
| 4            | 780     | 970     | 2.8921         | 2.9868         | 2.9394      | 0.0947 | 3.0606        |
| 5            | 370     | 480     | 2.5682         | 2.6812         | 2.6247      | 0.1130 | 3.3753        |
| 6            | 1280    | 1560    | 3.1072         | 3.1931         | 3.1502      | 0.0859 | 2.8498        |
| 7            | 360     | 260     | 2.5563         | 2.4150         | 2.4856      | 0.1413 | 3.5144        |
| 8            | 680     | 650     | 2.8315         | 2.8129         | 2.8227      | 0.0196 | 3.1773        |
| 10           | 820     | 790     | 2.9138         | 2.8976         | 2.9057      | 0.0162 | 3.0943        |
| 12           | 610     | 600     | 2.7853         | 2.7782         | 2.7817      | 0.0072 | 3.2183        |
| 13           | 1200    | 1190    | 3.0792         | 3.0755         | 3.0774      | 0.0036 | 2.9226        |
| 14           | 670     | 600     | 2.8261         | 2.7782         | 2.8021      | 0.0479 | 3.1976        |
| 15           | 620     | 710     | 2.7924         | 2.8513         | 2.8218      | 0.0589 | 3.1782        |
| 16           | 230     | 150     | 2.3617         | 2.1761         | 2.2689      | 0.1856 | 3.7311        |
| 17           | 440     | 360     | 2.6435         | 2.5563         | 2.5999      | 0.0872 | 3.4001        |
| 19           | 2130    | 1840    | 3.3284         | 3.2648         | 3.2966      | 0.0636 | 2.7034        |
| 20           | 810     | 690     | 2.9085         | 2.8388         | 2.8737      | 0.0696 | 3.1263        |
| 21           | 300     | 320     | 2.4771         | 2.5051         | 2.4911      | 0.0280 | 3.5089        |
| 22           | 1390    | 1280    | 3.1430         | 3.1072         | 3.1251      | 0.0358 | 2.8749        |
| 23           | 1320    | 1340    | 3.1206         | 3.1271         | 3.1238      | 0.0065 | 2.8762        |
| 24           | 1460    | 1390    | 3.1644         | 3.1430         | 3.1537      | 0.0213 | 2.8463        |
| Average      |         |         |                |                |             |        | 3.1402        |
| Standard Dev |         |         |                |                |             |        | 0.2650        |

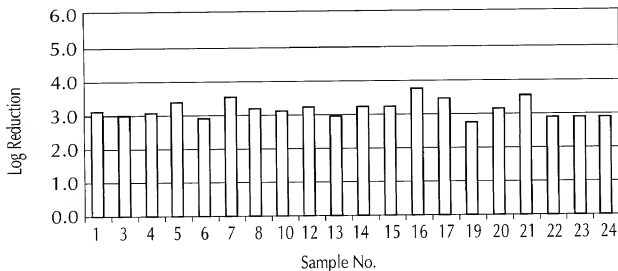
**FIG. 15**

FIG. 16

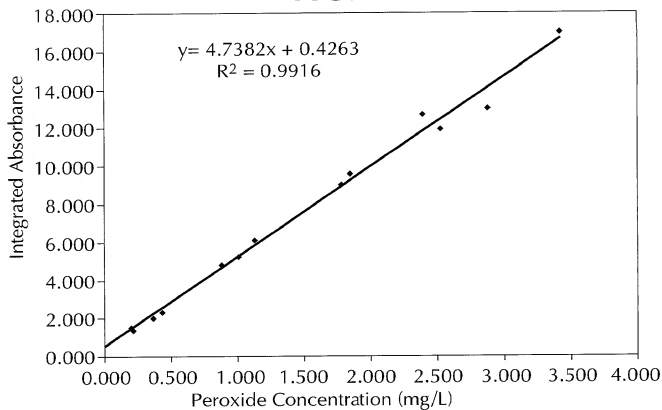


FIG. 17

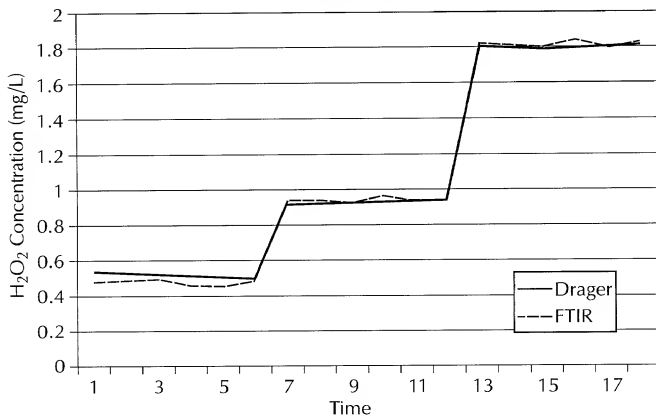


FIG. 18

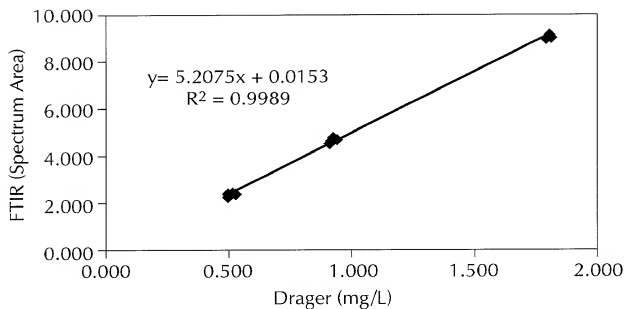


FIG. 19

